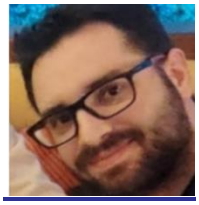
CHARALAMPOS KATSOGRIDAKIS



Materials Scientist and Engineer, Ph.D.

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INTRODUCTION

I was born in Athens in 1985. I attained my diploma in material science and engineering from the University of Ioannina in 2011.My specialization lies in experimental solid-state physics and materials. My diploma thesis. was undertaken in the Institute of Nanoscience and Nanotechnology of the N.C.S.R. “Demokritos” and involved the development of Si nanowires via metal assisted wet chemical etching and Si nanopatterning through self-assembling porous anodic alumina. In November of 2022 I attained my Ph.D. in the field of organic electronics under the supervision of P. Argitis and P. Normand. During my Ph.D. I obtained extensive experience in the fabrication of solution processed organic electronic transistors, their electrical characterization as well as the UV-Vis and FTIR characterization of polymeric thin films. During the final two years of my Ph.D. I worked in parallel as research associate in where I developed novel resins formulations for UV-nanolithography applications. I have three publications in international scientific peer-reviewed journals, one of which stems from my Ph.D. research. My research interests lie in microelectronic devices and fabrication, with a focus on organic semiconductor applications. Currently I work in the regulations dept. of a flexible packaging industry.

RESEARCH EXPERIENCE

Research associate

Institute of Nanoscience and Nanotechnology, National Center for Scientific Research “Demokritos”

Mar 2020 – Mar. 2023

- Development of novel epoxy resins for applications in Roll-to-Roll UV Nanoimprint Lithography.
- Characterization of the resins (UV/Vis, Optical microscopy, SEM)
- Application and evaluation pattern transfer of the resins with UV-NIL

Contact:
@ Director of Research, Dr. Panagiotis Argitis
p.argitis@inn.demokritos.gr

Contact:
@ Researcher, Dr. Nikolaos Kehagias
n.kehagias@inn.demokritos.gr

Ph.D. Candidate

Institute of Nanoscience and Nanotechnology, National Center for Scientific Research “Demokritos”

Apr 2012 – Nov 2022

- Fabrication development process of Organic Thin Film Transistors
- Electrical characterization of fabricated devices
- UV/VIS and FTIR characterization of thin films

Contact:
@ Director of Research, Dr. Panagiotis Argitis
p.argitis@inn.demokritos.gr

Contact:
@ Director of Research, Dr. Pascal Normand
p.normand@inn.demokritos.gr

EDUCATION

Ph.D.

School of Chemical Engineering NTUA & N.C.S.R. “DEMOKRITOS”

Nov 2022

Title: Organic semiconductor applications in opto-electronic devices for sensing and information storage

Diploma: Material Science and Engineer

University of Ioannina School of Materials Science and Engineering

Specialization: Electronic materials

Jan 2011
(Degree: 7.13/10.00)

LANGUAGES

Greek: ●●●●●
English: ●●●●●

Diploma Thesis

Institute of Nanoscience and Nanotechnology, National Center for Scientific Research "Demokritos"

Nov 2009 - Jan 2011

- Fabrication of Si nanowires via metal assisted wet chemical etching
- Fabrication of Porous Anodic Alumina and Si nanopatterning
- Basic clean room processes

Contact:

@ Professor, Dr. Panos Patsalas

ppats@physics.auth.gr

List of Publications

1. *"Ion-activated greatly enhanced conductivity of thin organic semiconducting films in two-terminal devices",* Kapetanakis E., **Katsogridakis C**., Dimotikali D., Argitis P., Normand P *Advanced Electronic Materials. 6 (2020) 2000238*

2. *"Commercially available chromophores as low-cost efficient electron injection layers for organic light emitting diodes",* Verykios A., Soultati A., Tourlouki K., **Katsogridakis C**., Alexandropoulos D., Vidali V. P., Panagiotakis S., Yannakopoulou K., Dimotikali D., Fakis M., Palilis L. C., Stathopoulos N., Pistolis G., Skandamis P.N., Argitis P and Vasilopoulou M., J. Phys. D: Appl. Phys. (2022) 55 215106

3. *"Si nanowires by a single-step metal-assisted chemical etching process on lithographically defined areas: formation kinetics",* Nassiopoulou A.G., Gianneta V., **Katsogridakis C.** *Nanoscale research letters* (2011) *6*, 1-8.

Conference participations (indicative)

1. Kapetanakis E., Douvas A.M., **Katsogridakis C**., Kaliakatsos C., Argitis P., Normand P. "*Ionizing radiation dosimetry based on the concept of radiation-induced generation of protons in organic gate dielectrics*" (ABSTRACT: J.P.II Poster) E-MRS 2013- Spring, Strasburg, France, May 27-31
2. Kapetanakis E., Kaliakatsos J., **Katsogridakis C.**, Douvas A. M., Koliopoulou S., Speliotis A., Psycharis V., Argitis P., Normand P. (Oral) "*Radiation sensors based on the generation of protons in polymeric gate dielectrics"* 30th Panhellenic Conference on Solid-State Physics and Materials Science, September 21-24, 2014, Heraklion, Crete.
3. Kapetanakis E., **Katsogridakis C.**, Douvas A. M, Koliopoulou S., Psycharis V., Saltas V., Kaliakatsos J., Dimotikali D., Argitis P., Normand P. "*Radiation microdosimeters based on the generation of protons in polymer dielectrics"* 8th International Symposium on Flexible Organic Electronics (ISFOE15), Thessaloniki, Greece, 6-9 July, 2015
4. **Katsogridakis C.**, Kapetanakis E., Douvas A.M., Psycharis V., • Dimotikali D., Argitis P., Normand P "*Radiation-sensitive OFET based on the generation of mobile protons and anions in polymeric gate dielectrics"*. E-MRS 2017- Spring**,** Strasburg, France, May 22-26, (Oral I I-9.1)